

What is claimed is:

1. A driving unit of a welding equipment provided with a pressure application shaft that is driven by a motor comprising:

a screw shaft provided integrally with or substantially integrally with a rotary shaft of the motor;

a nut provided integrally with or substantially integrally with the pressure application shaft and is screwed with a screw of the screw shaft; and

a baffling mechanism provided on the pressure application shaft;

wherein the rotary shaft of the motor is positioned substantially coaxially with the screw shaft and a rotary force outputted from the rotary shaft of the motor is converted into a reciprocating motion of the pressure application shaft.

2. The driving unit of a welding equipment according to Claim 1, wherein the screw shaft is integrally provided on the rotary shaft of the motor by extending the rotary shaft of the motor in the output direction of the motor to form the screw shaft on the extension portion.

3. The driving unit of a welding equipment according to Claim 1, wherein the screw shaft is substantially integrally provided on the rotary shaft of the motor by boring a hole at the output side of the rotary shaft of the motor, and inserting one end of the screw shaft into the hole.

4. The driving unit of a welding equipment according to Claim 1, wherein the screw shaft is substantially integrally provided on the rotary shaft of the motor by rendering the rotary shaft of the motor hollow to form a hollow portion and allowing and fixing the screw shaft to penetrate the hollow portion to fix the screw shaft to the hollow portion.

5. The driving unit of a welding equipment according to Claim 1, wherein the screw shaft is substantially integrally provided on the rotary shaft of the motor by fixing the screw shaft to the rotary shaft of the motor utilizing a friction force.

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6. The driving unit of a welding equipment according to Claim 1, wherein the nut is integrally provided on the pressure application shaft by rendering the pressure application shaft hollow, and forming a screw on the inner periphery of the pressure application shaft at the end thereof.

7. The driving unit of a welding equipment according to Claim 1, wherein the nut is substantially integrally provided on the pressure application shaft by rendering the pressure application shaft hollow, and fixing a nut to the inner periphery of the pressure application shaft at the end thereof.

8. The driving unit of a welding equipment according to Claim 1, wherein the nut is substantially integrally provided on the pressure application shaft by fixing the nut to the pressure application shaft at the end thereof.

9. The driving unit of a welding equipment according to Claim 1, further comprising an elastic body disposed on the axis of the pressure application shaft through which the pressure application force exerts, and electromagnetic brake disposed on the rotary shaft of the motor.

10. The driving unit of a welding equipment according to Claim 1, further comprising a machining part provided on the end of the rotary shaft opposite to the output side thereof, on which a manually operating handle is mounted.

11. The driving unit of a welding equipment according to Claim 1, further comprising a machining part provided on the end of the screw shaft opposite to the output side of the rotary shaft, on which a manually operating handle is mounted.

12. The driving unit of a welding equipment according to Claim 1, further comprising a driven part that is provided on the rotary shaft of the motor or the screw shaft and positioned between the rear of a body of the motor and the front of a position detector for transmitting the of the motor and a manually operating driving part that is positioned eccentrically from the screw shaft for transmitting a turning torque to the driven part.

13. The driving unit of a welding equipment according to Claim 12, wherein the driven part is formed of a gear, and further comprising a machining part that is manually operable and is formed in a gear of the driving part connected to the gear of the driven part directly or by way of a serrated toothed belt.

5 14. The driving unit of a welding equipment according to Claim 12, wherein the driven part is formed of a gear, the driving part meshing with the gear of the driven part is formed of a gear, and further comprising a standby unit formed of an elastic body for displacing the position of the gear of the driving part, wherein the gear of the driving part is rendered standby when the motor is operated by the
10 standby unit.

15. The driving unit of a welding equipment according to Claim 12, wherein the driven part is formed of a gear, the driving part meshing with the gear of the driven part is formed of a gear, and further comprising a guide shaft integrally provided with the gear of the driving part, wherein the gear of the driving can be
15 taken out from the motor by the guide shaft when the motor operates.

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